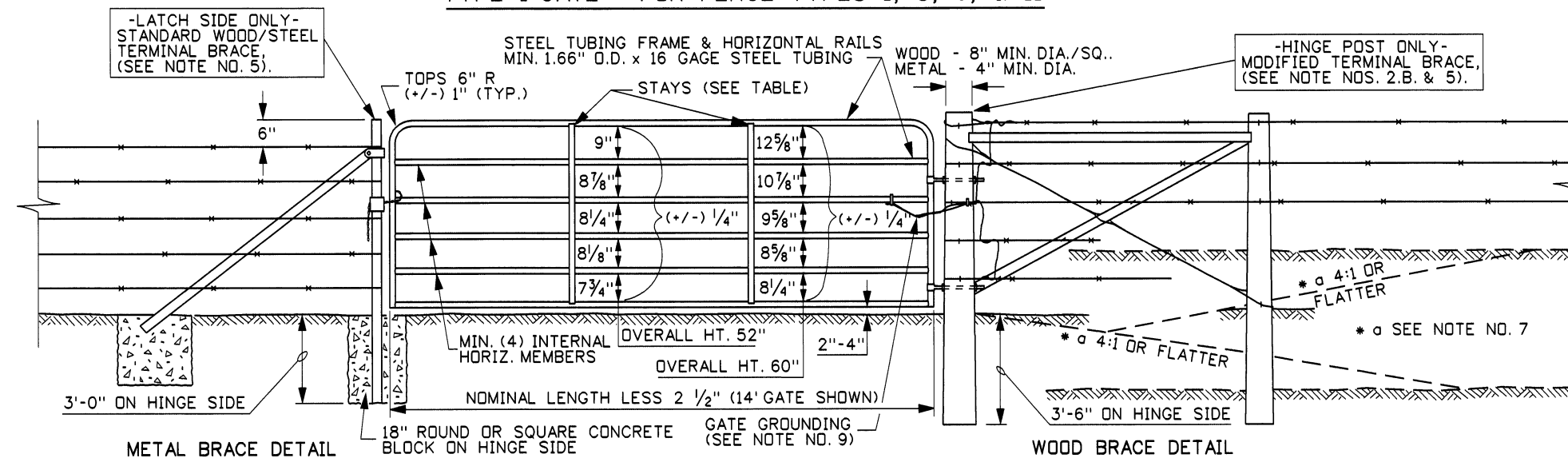
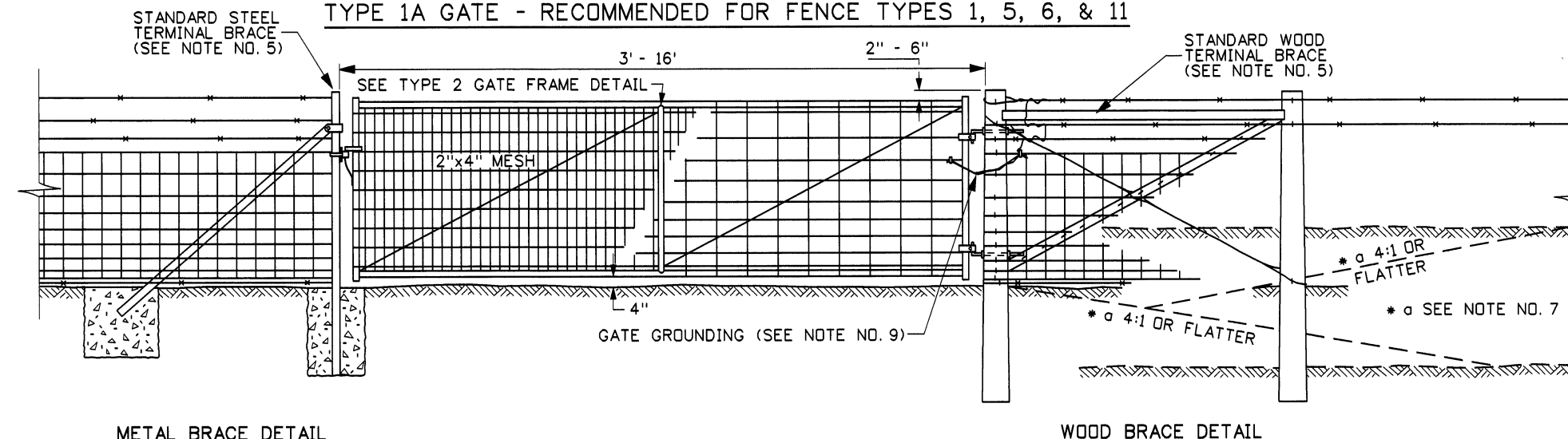


TYPE 1 GATE - FOR FENCE TYPES 1, 5, 6, & 11



TYPE 1A GATE - RECOMMENDED FOR FENCE TYPES 1, 5, 6, & 11



TYPE 2 GATE - FOR FENCE TYPES 2, 3, 7, 8, & 33

REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
1	9-76		6	10-04	MSM		
2	5-95	MSM					
3	8-97	MSM					
4	6-02	MSM					
5	6-03	MSM					

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME
f2c_1004.std

DRWG. ORIG. DATE:
JANUARY, 1962

IDAHO
TRANSPORTATION
DEPARTMENT

BOISE IDAHO

Assistant Chief Engineer (Development)

Chief Engineer

STANDARD DRAWING

GATE TYPES 1, 1A, & 2

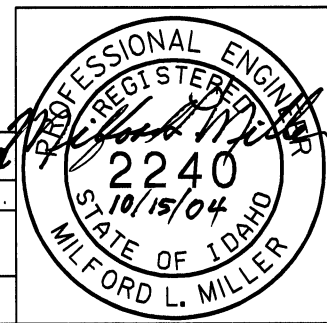
REQUIRES SHEET 2 OF 2 & STD. DWG. F-2-A

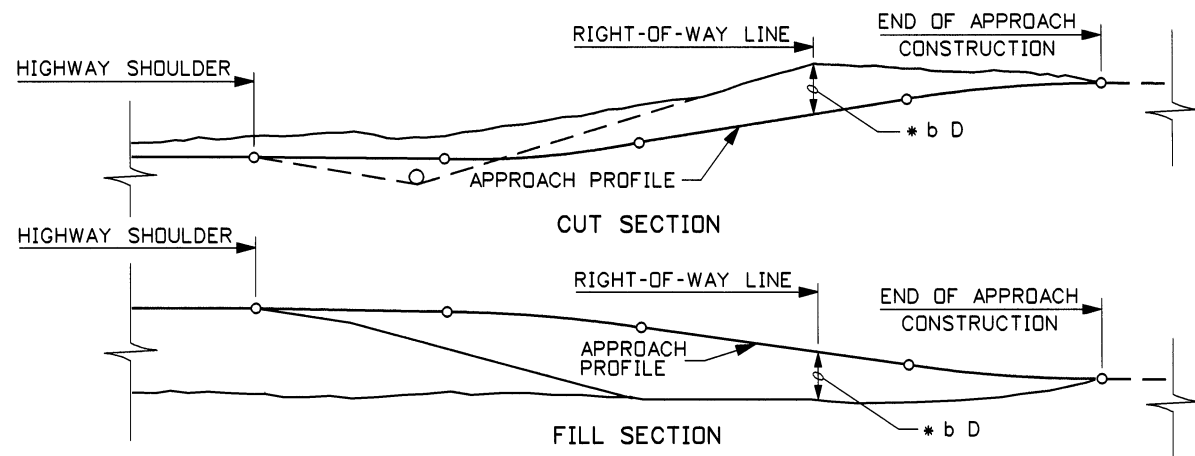
English

STANDARD DRWG. NO.

F-2-C

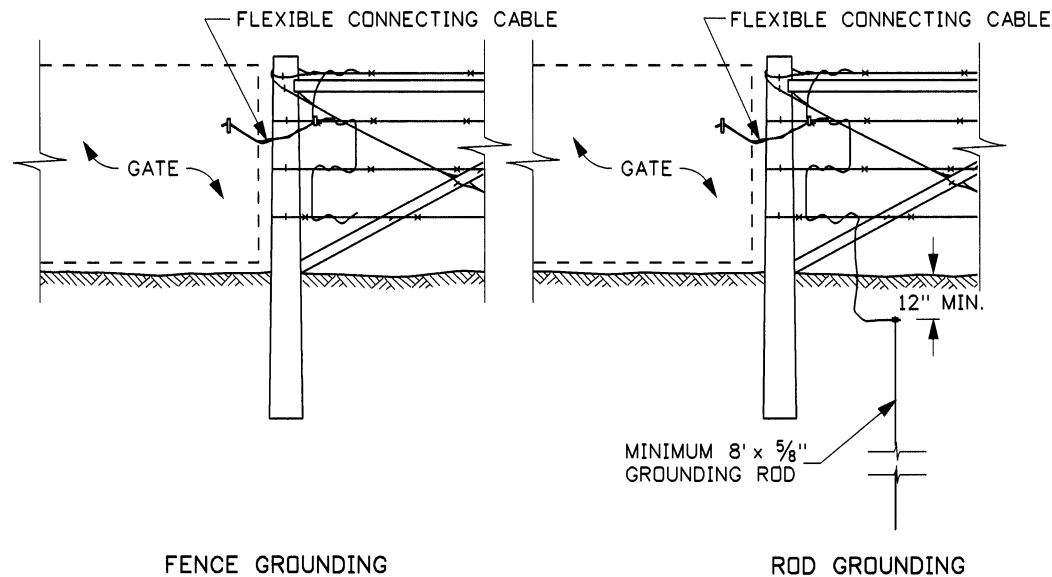
SHEET 1 OF 2



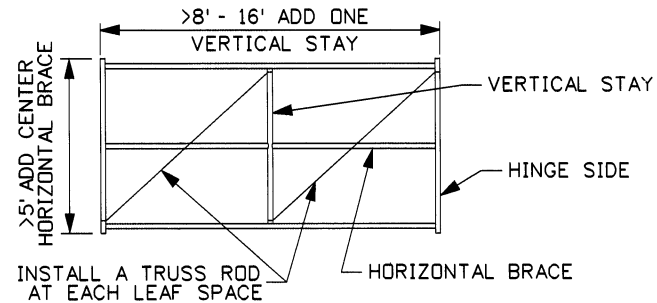


* b D = DEPTH AT RIGHT-OF-WAY LINE.
WHEN D IS 5' OR LESS, INSTALL GATES AT RIGHT-OF-WAY LINE.
WHEN D IS MORE THAN 5', INSTALL GATES AT END OF APPROACH
CONSTRUCTION OR AS DIRECTED. ANGLE AND INSTALL RIGHT-OF-WAY
FENCE ALONG EDGE OF APPROACH CUT OR FILL SLOPE.
CONSTRUCT APPROACHES ACCORDING TO STD. DWG. H-4-A.

VEHICLE APPROACH GATE INSTALLATION



GATE GROUNDING DETAIL



TYPE 2 GATE FRAME DETAIL

(SEE NOTE NO. 3.I.)

GATE GROUNDING TABLE			
kV	GATE DISTANCE FROM TRANSMISSION ϕ	GROUNDING GATE TYPE	* GROUNDING TYPE
500	<100'	1, 1A, 2	ROD
500	100' - 200'	1, 1A, 2	FENCE
345	<100'	1A, 2	ROD
345	100' - 150'	1A, 2	FENCE
>230	50' - 100'	1A, 2	FENCE
100-230	WITHIN R/W	NONE	NONE
<100	WITHIN R/W	NONE	NONE

* GATE GROUNDING - SEE GATE GROUNDING DETAIL

GATE STAY & WEIGHT TABLE			
GATE TYPE	WIDTH	NO. STAYS	GATE WT. (MIN. LBS.)
TYPE 1	4'-6'	0	N/A
	8'-12'	1	N/A
	14'-16'	2	N/A
TYPE 1A	4'	0	37
	6'	0	50
	8'	1	68
	10'	1	81
	12'	1	95
	14'	2	113
	16'	2	126
TYPE 2	SEE "TYPE 2 GATE FRAME DETAIL"		

NOTES

- TYPE 1 GATES:
 - SHALL BE USED FOR FENCE TYPES 1, 5, 6, & 11.
 - STAYS SHALL BE A SECTION OF METAL FENCE POST OR ROUND WOOD POST 2 1/2" TO 3" IN DIAMETER. PLACE LARGER WOODEN STAYS AT THE GATE ENDS.
 - PRY STICK SHALL BE A 24" LENGTH OF HARDWOOD TOOL HANDLE.
 - WIRE LOOPS & PRY STICK WIRE SHALL BE ATTACHED WITH A DOUBLE WOVEN 9 GAGE BARBLESS WIRE OR A SUITABLE CHAIN. THE LOOPS AND PRY STICK SHALL BE ADJUSTED SO THAT THE GATE IS TAUT WHEN CLOSED. THE LOOPS SHALL BE FASTENED TO THE ADJACENT LATCH/HINGE POST.
 - THE STAYS AND END POSTS SHALL BE STAPLED TO THE CONNECTING WIRES.
 - THE GATE BRACES SHALL MATCH THE ADJACENT FENCE TYPE.
- TYPE 1A GATES:
 - RECOMMENDED TO BE USED WITH FENCE TYPES 1, 5, 6, & 11. THE USE OF TYPE 1A GATES IN PLACE OF TYPE 2 GATES SHOULD HAVE THE APPROVAL OF THE ADJACENT PROPERTY OWNER(S) AND THE ENGINEER.
 - TYPE 1A GATES REQUIRE A MODIFIED METAL OR WOODEN BRACE. USE OF THE METAL BRACE REQUIRES A 4" MINIMUM PIPE (1/4" WALL) ON THE HINGE POST. USE OF THE WOODEN BRACE REQUIRES A MINIMUM 8" SQUARE OR SMALL END DIAMETER FOR THE HINGE POST. DO NOT USE BAR ANGLES ON TUBE GATE TERMINALS. WOODEN HINGE POSTS ARE 8' AND METAL HINGE POSTS ARE 7'-6" LONG. THE METAL HINGE POST REQUIRES A 18" SQ. OR RD. ANCHOR BLOCK.
 - HINGES FOR TYPE 1A GATES WIDER THAN 10' SHALL HAVE LEVELING THREADS ON A MINIMUM 3/4" DIAMETER ROD.
 - LATCHES FOR TYPE 1A GATES SHALL BE LOCKABLE AND NON-SAGGING ON THE LATCH SIDE WHEN LATCHED.
 - TYPE 1A GATES SHALL HAVE A 180° SWING UNLESS OTHERWISE SPECIFIED.
- TYPE 2 GATES:
 - SHALL BE USED FOR FENCE TYPES 2, 3, 7, 8, & 33.
 - GATE FRAMES SHALL BE FABRICATED WITH A 1.05 INCH O.D. COLD ROLLED OR DRAWN GALVANIZED STEEL TUBING WITH A WALL THICKNESS OF 0.095 INCHES OR 1 INCH GALVANIZED PIPE.
 - THE WIRE MESH SHALL BE GALVANIZED 12.5 GAGE MINIMUM.
 - EACH GATE SHALL BE EQUIPPED WITH AN ADJUSTABLE DIAGONAL TRUSS ROD.
 - THE HINGES AND LATCH SHALL BE GALVANIZED MALLEABLE STEEL.
 - GATES FOR TYPE 7 FENCING SHALL BE CONSTRUCTED WITH A 2" x 4" MESH.
 - GATES FOR TYPE 8 FENCING SHALL HAVE 3 SETS OF HINGES AND A HORIZONTAL BRACE MEMBER.
 - TYPE 2 GATE FRAMES SHALL BE SHOP WELDED AND ALL WELDS SHALL BE PAINTED WITH AN APPROVED ZINC RICH PAINT. THE TRUSS ROD TIGHTENER AND NON-TIGHTENING END OF THE TRUSS ROD MAY BE WELDED TO THE GATE.
 - TYPE 2 GATE FRAMES SHALL HAVE EXTRA VERTICAL STAY(S) AND A CENTERED HORIZONTAL BRACE WELDED IN PLACED ACCORDING TO THE "TYPE 2 GATE FRAME DETAIL". THE VERTICAL STAY(S) SHALL BE EVENLY SPACED ON THE GATE AND EACH LEAF SPACE SHALL HAVE A TRUSS ROD.
- TYPE 3 GATES:
 - TYPE 3 GATES ARE FOR CHAIN LINK FENCES ONLY, REFER TO STANDARD DRAWING F-2-D (CHAIN LINK FENCE TYPE 4).
- ALL GATES SHALL REQUIRE A LIKE PAIR OF METAL OR WOOD TERMINAL BRACES AS DETAILED ON STANDARD DRAWING F-2-A (SHEET 2 of 3), (STANDARD BARBED, WOVEN, MESH, COMBINATION WIRE FENCES & FENCING DETAILS). GATE TYPE 1A REQUIRES A LARGER HINGE POST ON THE TERMINAL BRACE USED.
- WHERE TWO TYPE 1A OR 2 GATES ARE USED FOR A SINGLE OPENING, AN APPROVED DROP ROD, LATCH, CHAIN AND/OR SNAP SHALL BE PROVIDED BETWEEN THE GATES.
- THE SIDE SLOPES TO THE VEHICLE APPROACH SHALL BE 4:1 OR FLATTER TO PROVIDE FOR INSTALLATION OF THE CONNECTING FENCE.
- EQUIVALENT METAL GATES OTHER THAN SHOWN WILL BE SUBJECT TO APPROVAL BY THE ENGINEER.
- ALL GATES SHALL BE GROUNDED ACCORDING TO THE GATE GROUNDING TABLE AND GATE GROUNDING DETAIL. ALL GROUNDED GATES SHALL HAVE A FLEXIBLE COPPER CABLE ATTACHING THE GATE AND FENCE WIRING ON THE HINGE SIDE OF THE GATE.
- NOT TO SCALE.

REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
1	9-76		6	10-04	MSM		
2	5-95	MSM					
3	8-97	MSM					
4	6-02	MSM					
5	6-03	MSM					

SCALES SHOWN
ARE FOR 11" X 17"
PRINTS ONLY

CADD FILE NAME
f2c_1004.std

DRWG. ORIG. DATE:
JANUARY, 1962

IDAHO
TRANSPORTATION
DEPARTMENT



BOISE IDAHO

Steve C. Hutchinson
ASSISTANT CHIEF ENGINEER (DEVELOPMENT)

Jim D. R...
CHIEF ENGINEER

STANDARD DRAWING

GATE TYPES 1, 1A, & 2

REQUIRES SHEET 1 OF 2 & STD. DWG. F-2-A

English

STANDARD DRWG. NO.

F-2-C

SHEET 2 OF 2

